

PATENT
1403-0223P



IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: TAGUCHI et al. Conf.: Unknown
Appl. No.: NEW Group: Unknown
Filed: January 29, 2002 Examiner: Unknown
For: PNEUMATIC TIRE

#4
4-30-02

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION WITH CONTINUATION-IN-PART OR
RULE 1.53(b) CONTINUATION OR DIVISIONAL APPLICATION)

Assistant Commissioner for Patents
Washington, DC 20231

January 29, 2002

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449 form(s), attached hereto.

II. REFERENCES PREVIOUSLY CITED OR SUBMITTED

Pursuant to 37 C.F.R. § 1.98(d), consideration of information listed on the PTO-1449 form(s) is requested since any patents, publications, or other information which are listed on the PTO-1449 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s).
08/110,836
07/735,062
07/486,604

U.S. Filing Date(s)
August 24, 1993
July 24, 1991
February 28, 1990

III. STATEMENT OF RELEVANCY

U.S. Patent 4,014,852 discloses blends of 5 to 95% wt. % conjugated diene-containing butyl rubber with 95 to 5 wt.% halobutyl or butyl rubber are capable of higher carbon black loading and have faster cure time, unusually high tensile strength and improved green strength. The blends may be cured with dienophilic compounds or sulfur-based cure packages.

U.S. Patent 2,698,041 discloses a mixture of crude rubber and brominated derivatives prepared from a particular isoolefin-polyolefin interpolymer. The mixture contains preferably 60 to 90% brominated derivatives. The mixture can be used as a liner for a pneumatic tire. The mixture is readily vulcanized under approximately the same conditions as a product made of either ingredient alone.

U.S. Patent 4,616,687 discloses vulcanization compositions of (1) from about 80% to about 99% of a rubber material selected from the group consisting of butyl rubber, halogenated butyl rubber having from about 1% to about 3% by weight of halogen and mixtures thereof, and (2) from about 1% to about 20% of a chlorinated hydrocarbon polymer having a chlorine content of from about 30% to about 70% by weight of chlorine, said composition having good impermeability to gases and tear resistance and being useful in tire inner tubes and inner liners.

U.S. Patent 4,665,963 discloses a tubeless pneumatic tire with an inner liner having puncture sealing characteristics comprising as the inner liner a puncture sealing laminate having an outer halobutyl polymer containing layer and an inner polymer containing layer, the inner layer of the laminate having been reacted with zinc peroxide compound.

British Patent Application 2,072,576 discloses an inner liner of a blend of halobutyl rubber and unsaturated rubber for a pneumatic tire. This reference does not teach a particular blend proportion capable of providing better cure compatibility and better crack resistance.

While this Statement has been presented pursuant to the Applicants' duty of disclosure, this Statement is not an admission that the cited documents are in fact prior art under 35 U.S.C. 102 or 35 U.S.C. 103.

This Statement is not to be construed as a representation that a search has been made or that no better art exists.

III. FEES

This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS or requires a copy of any of the references cited but not provided, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.


Respectfully submitted,

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1403-0223P

Enclosures: ☒ PTO-1449
☐ References
☐ Foreign Search Report
☐ Other:

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

ATTY DOCKET NO.
1403-0223P

APPLICATION NO.
NEW

APPLICANT
TAGUCHI et al.

FILING DATE
January 29, 2002

GROUP
Unknown

10/058140
U.S. Pat. No.

01/29/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4,587,302	5/6/1986	Berta			
	3,038,515	6/12/1962	Koch et al.			
	4,014,852	3/29/1977	Gessler et al.			
	4,616,686	10/14/1986	Berta			
	4,754,793	7/5/1988	Mohammed			
	4,396,051	8/2/1983	Ogawa et al.			
	3,769,122	10/30/1973	Coddington et al.			
	2,857,357	10/21/1958	Smith			
	2,698,041	12/28/1954	Morrissey et al.			
	4,665,963	5/19/1987	Timar et al.			
	4,616,687	10/14/1986	Berta			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 127 998	12/12/1984	EPO				
	2072576	10/1981	Great Britain				

OTHER DOCUMENTS

(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

Exxon Chemical Co., Bromobutyl Rubber Compounding and Applications, 1986, pp 5-8; 53-54; 113 and 120.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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